# 40p WEEKLY

## BRITAIN'S BEST-SELLING MICRO WEEK CLASSPIEUS START HERE What future for the Lynx

for the Lynx now?

ty their for the Lynx now?

ty their for the Lynx or the Ly

AQUARIUS
SEC FAGE 46

AGUARIUS
SEC FAGE 46

AGUARIUS
SEC FAGE 46

Control to the voice Accepting to the property of the proper

ACUARIUS

ACUARI

Fine resolute artifices to buy or said a semigration of the gallet T GNI and give on the default. On the semigration of the sem

Dragon joins MSX bandwagon

DEACHES (Dark in seen by order unit. And Druge in the relative process of the control of the Con

Compares a transient to be been described in the description of the de





Are will be dominated by shows the

in Chicago will be followed in short

There are no introdions of any estounding new mechines or periodesoftware on display Commodore

which appropried the 264 of Lexever since, should at least announce is close for the next als months July and August are traditionally rather lean months for the computer industry, but sales usually start in

Competition is likely to intensity in and the MSK companies all trying to grab a slice of the lucrative micro

market The pressure wil slop affect It is difficult to predict exactly what

> Next Thursday reguntaineering challenge Scale the religibly cealing and articles the changing

ubscribe to



#### continued from page 1

Camputers

companishing for MSX day

this given the key to batter source taken they Valhalla goes US VALHALLA, the his soften Standards tide, or now confidently

Soot dear Sad Blando UK's Alex Gookie, "A day favour rice.

COST - the Geld of Mile Committed GOSH show mer Nick Attention 745 am over to fight -- and believe no

legal fund

01-437 4343 GOSH set up

Donations welcome

New machine

not gross curridge designed

DK TRONICS by new works

Design change



#### Letters

response
I thought I should wate a
full readers of what could
a party tentous buy on
Sendar ZX Spectrum ZX

reft resident of what could be greater scenes by give the forcher ZX Spectrum ZX is not a state of spreas to reason as the of spreas to reason as the or 2X Spectrum ZX is not 2X Spectrum Ext of seal of spectrum ZX is not 2X Spectrum ZX Spec

sympa in the following and under commental to the following in the following comment of the following comment of the following comment of the response gave of the control layous proposal most interested most interested from the control layous proposal most interested most interested from the control layous proposal most interested m

of detries of such and one problems in the 2X learnful is U.M., however, the sum of the

and smith and sm

Composing systems in section of the composing systems in section of the composing systems are seen of the composing systems are seen of the composing systems are seen or composing system

offwire houses to greate the man remarkable or as remarkable or as remarkable or as remarkable or as the man of the man o

Software become from themthe scheme and groups in protect
then interest Come on user's
the law in a protect our selection.

I would like to post our selection
for Javid Long that, while much
work and the selection out

competible, (and I support in plea for suggested in common or competibility), these is vimally an activate that cause the treathered—in spet-ofellists of software bouses in the throughteneous of fundas Hoppy Microtinesia John Adapta 39 Greshen Clin 20 Greshen Clin

Asyste who cope s ZX there will want to put conside authorize on to: drive carriedge to spo beding time We would coccurage software house

driet controller to spend up leading done. We would like to encourage offware houses with escantle programs to include a internative option.

Bundlos

of letterure

> point (regel what may() posperson has unaccidy shaveling its in the shoot farm-box past fee days, whole o show you do here i aged 15-15 us it may come

Back to front
White finding the bulk of

PS If such a book in swelster.

A a part of my 'A br.
Address resume I am deseng is computer destine
and with the local size
and At the assumer I is
avonaging what fires one
there unit's should adop
whether is he as capsoid.
With the constant is me.
I am writing is sak just or
den. "both would you we
tone a computer dish. As
will be disappage, making as
peasably uniting the disages.

possibly using the this desk, I won grateful for my in Earline &c



Available Now for Commodore 64

# ALLA



COMMODORES4 & 48K SPECTFUM









#### Special Feature

## A chip called Sam Nay Berry continue the look at the inicreprocessor The question has a most other select withing intensit that. The third macroprocessor large value of white white white the continue of the continue of

It is "this morphosistic is a view of fishabo, which does it do!). The oil select his in the property of the property of the property of the property of the common of the property of the common of the property of the prope

recognization is concerned these two vittings, high and lose is all that it heeds to be projected, and she perform at mercies. These highs and lose here loop into the tripy in a senable motion and this order as assist machine code. The constitut of intervals in an all of machine code of the constitution of the code of intervals in and information code into what is easiled bring's within in hinduc up of the code of the code

another aystem color hexadecimis, which is useful because we can their lies one the hexadecimis report of their lies one hexadecimis remove in plant of Stut bearing tunners. Don't though their the resolution camera orderated hexadecimis of separate their another orderated as of litures a shorthard another to be increased to drivery by a program color in records before the maintenance.

cated in retrigot pergra the mainten was understand a word.

When the retrightedurer makes a recomprocessor, they publish the commands or instructions set with the ship. These visfractions is all that is headed to program a

In your home computer, there is a machine code program written by the computer manufacturer visible that the macroprocessor have to enderstead the Basic language. Also in this program all the Information that if the Information that your computer can be

and a remaindance of the lever was a property to example, then this Horn's the lever between district his review of the property contains a control of the time. Our instructions as another load of memory casted Hear to Berddon Access Memory which as Berddon Access Memory which

Se how does the managemoreacy undercitated due Blace polygows? Main the Plans conferes sometifying order are interpreted This acts in the norme way so a transition would self the warrest for fact to company while condition and maintain the fact to company while condition are program and the highly and lower than the managemore can understand

Booker or filter, you will start worsharing while the storageoceasor does with all head highs and lows and do figure that ou we have to look at what goes on made the processors when you have been processors when you have the processors when you have you want to be processors when you want to processors when you want t

mer. There is more than decreased the ALU or Arthresis and ought which has a regimer associated with it salled the accountable remitte of these regimers is celled the Progrem Counter. In redden, here in a register called the Dringe segate or her man a register called the Pringe segate or SEALs (regimer. A region or selection of the till own contain wither large or pringer.

containing order and copies, that it is a containing order and copies, that it is a comment or a pion of the first that is a comment or a pion of many order of the first that is a comment or a pion of most disposed into a bining national that is most disposed into a bining national that the most produced is placed an operation of the pion o

The things that a monoprocessor can do with drief am fairly limited. I can add out to submit drief at it are fairly and out to submit drief it is an activities are and change it about and manufacture of monoproper it. Therefore, and of the strades of monoproper and to make the strades of the strades of the also to make that the strades of the also to make the strades of the strades.

things it about and translater if homony part if it ministry to selection. Used to round of the imposes of our interproperation. It will mention that the reimpositions are done autoon but the reimpositions are done autoo the other to Logic Unit and see set our year the COUNTAINOR when I repried the general Applice implement of looked on the seed

> enigolar levels to cut of introduced or older in the something Well microprocessor Meen a p for the read the mosome is

Stipotism froi happened. Prop will fell for finding indexed if a sturce or is there is a carry when the numbers have been added — no one possessions for Fell regular to the hotographisms for given to the hotographisms. Covering out of the black box into the origin fell are not fell in the Revice processor has lots of connections looking processor has lots of connections looking.

Table in the depth of the company of

the Pain reineprocessor that serve to control to the point of the compute and there is a sametime cellular the clock. This is not a committing onlike the clock. This is not a committing that you can be committed to the committed of the committed of the control of the committed of the committed

Aset of

Of course, it leaves more than just a removement of this is have leaved to imprope this home an environment of the immore, which conceils the leaves the immore, which conceils of a valid droppy makes enablement the informationation of the immore than impossible the interest of the improvement of the information could be informationated by the order of the immore adjust the information of the immore than the imm

called the VDCI or reline display generates, and/or dealer with the agrees in encessary to plut your information to a monday. Another Inspiration for a monday Another Inspiration (so is yealed plate which is should for eye/thoracon address contact and in many help to provide allowing the most length on for the sador dealers; the most length on the sador dealers; the most length of the things of the high the provided length of the things of the high the provided length of the things of the high the provided length of the things of the high the provided length of the things of the high the provided length of the things of the high the provided length of the things of the high the provided length of the things of the high the provided length of the things of the high the provided length of the things of the high things of the hi

Well there we are A journey that has belien us into the computer and lacked as the microprocessor and I right, given you





#### Reviews Airbome

## Crisis N a voy and

On board

which is so be found in the six:

Fred Short Price (0.95 Micro Electron

Report Savet, Chapel Alex

decide to delete a mechan Program Melecule Proce Et 90 den vacque in and Arlan

Skoon Lase Premin Tions Pros 47 % Mary Spectrum Supplier B. 6

Eldani Codeli

Black box

No those who like a lette

Frankriset children or here on 'hran' rather than

woulder where you have to

lighting distances you come we

Labyrinth Pro Spy will have you debuse

Graphic

The couper package or

The appropriate heeklet is Marke at the Parison mare

Process Parkey Price \$7.55

Pregram Dallas Price 55-55 Moss Fintron Supplier Com Communer Streetstree Led

Escape

As tent selventure guards go,

the guids The computer will

case should you mod ... such

Present Coldin Price \$1.77 Phone Associates, 177 Kings.

SUMMY A JUNE 1990

#### Spectrum

Line drawing

John de Rivaz shows how to add aniphics to activerstance winters with The Quil

The Out as a matern for written advange received these days Six porting lines of crechlos, however, Single Spectrum It has been well description on the built up. This program certain without coptains are not well have stored to special graphics at \$5001, indiventure or a designation

and in the political event traceon't aller less Put an empty sign in the machine and our

90 REM 14 January 1984 This program creates graphice for edding pictures to adventure cames written with "The Guill". 100 PRINT "Data for special ora phice for adventure cares" 110 DATA 0.0.0.0.1.6.0.0

120 DETA C.O.O.O.192.49.9.9 140 DATA 8,8,8,48,172,0,0,0 150 DATA 0,0,0,0,15,0,0,0 160 DATA 0,0,0,0,248,8,8,8 170 DATA 8,8,8,8,15,0,0,0 190 DATA U. U. U. U. 240,0,0,0 190 DATA 8.8.8.8.255.0.0.0 200 DATA 8, 8, 8, 8, 15, 9, 9, 0 210 DATA 8,8,8,8,248.8.8.9

220 DATA 0,0,0,0,255,8,8,8 230 DATA 129,66,36,24,0,0,0,0 240 DATA 0,0,0,0,24,36,66,127 250 DATA 129,66,36,24,24,36,66, 127 260 DATA 1,2,4,8,10,32,64,129 270 DATA 128,64,32,16,8,4,2,1

380 DAYA 8.8.8.8.255.8.8.9. 390 DATA 0,8,0,0,0,0,0,0 400 DATA 0,0,0,0,255,0,0,0 410 DATA 85,170,85,170,85,170,8 890 DATA 256 700 FDR f=USR "e" TO USR "u"+7 1 READ at IF a=256 THEN GO TO 1 910 PORT f. at NEET f.

919 BESTORE 920 EDG 4=24931 TD 27098 930 READ as POKE f. as NEET 6 940 FOR f=1 TO 3: BAVE "6"CODE 26731,27070-26731: NEXT # 950 REM The Porthtowan Combo Tape Issue 3 contains 4 eraphic adventure games using this system. Price £4 from

RTL, Nestowan, Porthtowan, Truro

TR4 BAI, Dormall, UK. 1000 FOR 6=144 TO 1641 PRINT CH RE (4-79) CHRE 41 NEXT 4



# AD ASTRA

TO THE STARS!
FOR THE 48K SPECTRUM FROM GEINGOYLE GEINGS
"SPACE IS DEEPER THAN YOU THINK . . ."

"SPACE IS DEEPER THAN YOU TI ONLY £5.95 EACH

100% MACHINE CODE ARCADE ACTION, FEATURING GARGOYLE'S STUNNING

PEALER ENQUIRES WELCOME.

Send this coupon to:

GARCOYLE GAMES,

4 NORTH WESTERN ARCADE,





ANNE SINCLAIR MAIL ORDE 6 FARN WAY NORTHWOOD MIDDLESEX

# STOP PLAYING AROUND GO TO

22 GAMES CENTRE OXFORD STRFFT

for the widest range of software for the ZX Spectrum, Commoder 64, VK 23, and Attary lists many lists for the Phrance Arain 1982 and Electron.

New tries are studied within bours of release oil our frends inpuded, washe author of citatis.

VIRGIN GAMES CENTRE, 22 OKFORD ST., LONDON WIL (1637/91

#### BBC & Electron

#### Space to move Joseph Burr and A Pudding show how to determine cisms

here Next, you are asked for and line if

TO BEN 2D DETERMINATION OF PLANET

It is best to select large values for O

110 EMPUT"X-POS"; X (X, 5) : EMPUT"Y-POS"; Y (X, 5) : EMPUT"X-VEL"; X (X, 2) :

180 X-210,11-1(D,1):Y-Y(A,1)-Y(D,1):Z-(X8X)-CY8Y

200 DE-YIA, 20 ST-ANSIST (2: DY-YIA, 2) SY-AYSTST/2 200 DYIA, 11-EIA, 1) -DELYWIA, 11-TIA, 11-DY 270 DYIA, 20-RIA, 20-RIA, 21-AYST

320 IFX(A,1) COORX(A,1) 125688 THEMS/C 350 IFYN(A,1)<00RYN(A,1):19248 THEN370



## Key to the QL — part 2

Cookyanne continues has look at the SuperBlant Rices
wheth ST continue Pier Int. of large
Anticle 1 Tig
Anticle 1

The first which as separate shall be separated as the second of the seco

streamble, not an Chel Farities (the Chelling State of the Chellin

a se a precedimentation ma precedimentation converge lan a place-unifore converge lan cares Software part pages 10 pages 10 pillion are sweet it is possibile or cares Software pages 10 pillion are sweet it is possibile

a Specificate over make to the option of colory memory enablements memory localism of

is not all claim mustimes and confidence implementated delivery with which is a regional give, respecting to a strain of an and or a confidence and or an analysis of analysis

Farm— Law and in Promoting with Gallace in Control and Control and

and of silving! The Aff has a seption of the morth between on lived and or riplical mode during line adding but does not. These assents to be some observer retrainment of the silving and the

of deep of the week and motifies of year Typer Perf MoNTES (gene a per year Typer Perf MoNTES) (gene a per year Typer Perf MoNTES) (gene a trend and trend a

companies to the Specificum. This is a doubt gainty as a the invidence and releg seatines but is a bird of let down it and out the seatines are syng, speed things up but by how much 1:00 in

Do krose Allon. The Microdyness gait abover and abover or the program care formered with partial and advance or the program care formered within partials and appealation for yellow.

which makes against operations very fraintmenth tester fine floory office operations in which tested the conditions of the second of the conditions of the conditions of the conditions of the conditions of the second of the conditions the Conditions of the programming propers and the conditions of the of programming propers and the conditions of the operations of the conditions of the conditions of the conditions of the operations of the conditions o



CC TYPERTH (CERMINE) - Name Shares (CC TYPERTH (CERMINE) - Name Shares (CC TYPERK (NC SO) - Shrya Law Chedeo Solomander STING OR (CBM 64) - Anlein Hereimen Heles OF POINTR (CBM 64) - F. J. Preston ACQUATI, AME (CBM 64) - John Heles (Breek RUMPLE TURK) LES KOBM 64) - Marc E.

















Four games ranging from the DOW OF Queens Road, Keynshers.

Aven MS OR COUNTY THE OWNER, AND



GAMES PROGRAMMERS

You could be earning

£20,000 +

for your game!

whatever the machine

SO SEND THEM TO US NOW!

Send tape and instructions to: Ian Smart, Software Development Manager, Companing

#### \* CLASSIFIEDS \*

of the year by the C.T.A.

\* it substain's only weekly home computer registers with a published Audit Bureau of Circulation sales figure.

 It has a classified section that is now require reading for everyone with an interest in arms

morps, or who wants to buy or sell SOFTW/ # UTILITIES \* ADDESSORIES \* SERVICE HAPDWARE \* HIRING \* CLUEG \*

PECRUTMENT \*

\* ESper SOC serni-display.

\*\*Transport contracts.

Edity copy data.

CALL BLASE DEFISION DS-427 43

L BLANE GAVES ON DT.-627 4343 FOR
AN IMMEDIATE QUOTE.
Proper Geography Plenty, Burnhaw
I this revent Street, London MCS9 XLP SUNSH

DATE AND ADDRESS



## SIMPLY THE CHEAPEST -- CHECK THESE PRICES

Johnson Tall 5-50 3-50 Nigricol. Marchiner 5-55 4-25 Zie-Zie-

H NEXT 4 A REC 1984

5.15 4.30 2.7mm

All types guaranteed principle First does delarge white T Days F = F DK phone and Side par order Charge of 250 per may be forestoned in Section 1, and the Company of 250 per may be forest to the first Charge F or American principle Design (F or 250 per per many before the Safet Text (81) 865 2763.

Recyclin Sethware, 18 Melecty Court Shousehill Repol Existe, London W4 3AM Text (81) 865 2763.

#### Upper and lower er set for use in Proods 4

show that a full range of characters from

The program is easy to use. The print

450 BATE 0.24, 34, 24, 38, 34, 24, 0.0, 0.0, 0.0

510 Bets 0,0,0,0,0,0,0,14,0,0,0,0,0

520 DATA 0,0,0,42,0,0,0,0,0,0,0,0,0 530 DATA 0,0,0,0,0,24,24,0,0,0,0

...... 40 'I Character set for 50 '9 DEVICEN PHESE 4 's Dynar Walton Esh. 1904 to 'management of the control of 100 EDR 1-MIZEOU TO MIZES

160 FF TC)7246 THEN CLEAPRING 170 "MACHINE-CODE DATA 180 DATA 20,02,12,12,15,21,50,78 190 DATA 02,01,10,25,03,38,20,57 230 DATA 4C, 81, 20, 25, E3, 4F, BC, C1

200 'PICKE IN THE CHARACTER SET STO 'ENCH CHRINCTER IE REPRESENTED 320 FOR 1-M/7100 TO M/75C3

370 'CHWIS FROM 32 TO 122

500 DATA 0,2,6,8,18,72,84,0,0,0,0,0,0 500 DATA 20,34,38,42,50,34,29,0,0,0,0 500 DATA 5,24,8,0,0,0,28,0,0,0,0,0 570 3676 56,66,4,24,32,64,324,0,0,0,0,0 600 BATA 62,32,60,2,2,34,20,0,0,0,0,0 AGO ENTH 0,0,0,0,0,0,0,18,0,0,0,0,0,0 600 ENTA 0,0,82,0,82,0,0,0,0,0,0,0

730 TRTA 80, 34, 34, 60, 34, 34, 60, 0, 0, 0, 0, 0 870 DATA 60, 34, 34, 60, 32, 32, 32, 0, 0, 0, 0 890 DATA 60,34,34,80,40,36,34,0,0,0,0,0

Dragon

730 DATA 62,8,8,8,8,8,8,8,0,0,0,0,0

THE PHONE SUPPLIES SCREEN L. O. IND "X.Y POSITIONS FOR PRINTING 1360 Fig. The full therester out."

21 NAY-0 JUNE 1964

1600 DF XDWSD THEM ENDIVERSE 1460 -DESPLOY CHARACTERS 190 CF HTMIME.

TO SEE BOS STORE STORE

7000

400 SAN DESCRIPT 410 SPRINTS FIRST \$12.Y

400 SECTION CONTINUES OFFER PRINCIPES. 509 00000 LEG 607 509 00030 LEA .90 500 00030 LEA .X









PARADOX: £7.50; SPOOF: £7.50; RUNESOFT



3D BAT ATTACK An all action 3 dimensional mase game where you gether up blocks of gold let the sin time patting your with against access earnight bath whole only purpose hills in to books, thanh and fell you.



CestahSoft Soft were not

more complicated and the vampires more diagerous.



30 BAS ATTACK

## THE REST IS KIDS STUFF. Aryour of for Cheartefact? The 'Soly one wy foliad out. The 'Soly one wy foliad out. The 'Soly one wy foliad out. The 'Soly one wy foliad out.

Buche winned these virgine bit forms good must learn they reacone. A share froot with the cycle has deep sure. General Section 1. Constitution in the learning of composition. If they are composition. If they are the section is a section of the sec

ALSO EXPILEDED by producy chapte or postal order for Ed-55 to

#### Commodore 64

#### sy machine code

se Warman's program takes the aches and pains out of mechine code programming a new reachine code programmer cun examples hold true)

the program. These numbers are fruitally

mechine-code programs but not as

This influenceon is set so in the program.

150 PRINT CHRISTIAN

250 MEST COD 260 PAINT (CENTS)\* \*\*NTH (PERCORD+921) -21 250 | 270 | PORT HOTEP, LINE-1NT (LINE/2014) #2014 THE PORT RESPONDENCE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY

Then amply our the program Virginia address as chosen in the 143 but this the

The Commodate computers here a very 

530 IF BEDOFTS THEN BOTH LONG DDO PORK 198,0 DGO PRINT CHES (187) DTO PRINT "JOS DONE," PEARY.

NOTE that decays auditors are being

represent to account total or three time take the large in the largest fourther. Counters 19th combines the mumber large in the large. In this case, sed in the Person and large for an influence that the program. The computer mumbers that the program. The computer mumbers were set to the computer mumbers that the program. The computer mumbers that the program is the computer mumbers the computer mumbers that the program is the computer mumbers the

350 PORT PER NOT DELL'EST (MELL'ESTA) ACTA



BUSINESS PROGRAMMING EDGE SOFTWARE

ANNE SINCLAIR LIMITED

#### BASIC COURSES IN SPACE



The BASIC Adventures in Space is a unique series of courses for the young beginner aged 7 to 77! It is written as a three part adventure story which takes the redder not space, introducing him step-ty-telp to the ship's compater's largeage—BASIC The book is supported by full software and further CAL (Computer Aided Learning) programm as less.

This novel approach combines e story that is computeive reading for the young reader with a curriculty structured approach to BASIC intricately inforwaven with the text





W.H. SMITH'S, BOOTS, SPEC stores and ell good computer shops and many good booksho

#### W W V X V X ( H The Adventure Begins ...



FOR 48K SPECTREM DATE Software Ltd & Threshol Street Garwannian Call 1997. Tel 6450 500000

THE

IS HERE 44K SPECTRUM & COM

ZX SPECTRUM ACCESSORIES Day being Periods and an one of

Your name here?

Eyou've ever seen yourself or a writer, and you've got

the search is on. Sandrana Books on the respected takes frost self-well

or idea or ours.

Or tell us was riders, and we'll let you know if you've got really can help you become an author iters and/or programmers

Feme and Fertune. Fer you?

Writeto David Lawrence Sunshine books editor with



Open Forum would start with a perserel description of the program and what it does

and then give some datable of how the program is constructed. We will Gone Fishing

FIRMING O A. WILTON DATA

0,150,17,0.72,013,020,13,020,13,020,13,021,03,16,040,181

Madon o DET STATE PET V-2

1:RT 10.0." D . GHT.

BY 45.9. THECO THIN 15,9, NT 30.0;

THEN PRINT INK & Levely OF LEVELS THEN BRINTING In Level to THEM COUNT . DIS. SEC IF LOVE >+ THEN PRINT

LOUGH CHIMINITHEN PRIN AF \_ LESSENZY\_TORK\_CRAPH

PRPER LANT - Hish Zi PRPER 1. MY "A". 128.129.55.50.100.100.

"0",0,01,69,187,900,0 ,040,054,050,007,96

"F" . @ . 01,60,95,95,950,7,0 "P".0,199,195,947,984, 20",0,60,70,207,200,10

"H".0.10.00.000.001.00 "I",100,040,000,000,00 "J".D.18.00.046.046.04 "K".0.48.28.187.28.42. DATE "N", 190,54,0,10,0,0,0,

A: PAPER G.AT B.S and hood can

#### Open Forum

TO 484 7850 TO 49. REND a REND TO 70 70 700 EYR THEN GO TO 788 6844 1.8.8.1.0.2.5.1.1.1.3.

Fre 1.0.1.0.1.1.1.1.1.1.1.1.1. 4180 page 6:8:-8:5 19.8.0.3 PLOT DDD,10

BRINY INC O.

". OT 13,0," TO 444

1684 porce THEN LET SAL-AS SE SHEEVAN'S THEN LET INLE

SHIP THEN LET CHE

10 50 -1 , (Q1-1) sq+0)

NEXT PRINT RT 1.0. eLiver-1. IF LIVES GORDER G. GEG

THE THE TAIL OF CA-

BEEF . D10.D0

rei 70 10: DEEP .010.16 TANKEY OLD OF C. P. 50 +5 1 7 THEN 50 TO 9980 Calle TO BE SWINT OF C. 16.7.High.RT 18.7.

A.S. TOWN HAVE SCORED TO S PY THAN IS TOO ME EN ASSES THEN LET ASSES THE RT 15,7,800/F,RT 18,1

MT 1,0 MY par TO So sye reed on part of the

POPULAR COMPUTING VEEKL

#### Open Forum

This process should work on all Vic 20%.

as to produce a been every time a key is called 50 times every second by the present The program some by wedgining computer's over interrupt southing their a small machine code program at themony. The program has finished if their juries by

mathire code program is automatically

NEW KETHOARD DEEP BY SUBSTREE HIAD ANDE ANDSO THEN STO 628 END

PORE 5,4:525-1:0070 2 DATA 128, 169, 75, 141 DATA 26.5,169.5 6 DATA 141,21,5,88 5 3a7a 14,144,165,197 9 3a7a 261,64,246,0 16 Da7a 169,196,141,12

2 LtT +# = '#68.03C4#07070707074gralge

GOSZ . CLAT

#### Microradio

redo receiver and ZNR1, is TOTAL CONTROL OUT PROTE who would like to receive

art to morse code expet I The govern display was

Ray Berry CHILL

### Open Forum Logo type graphic on the MTX me-

10 VS 41 PAPER 151 ENK 11 CLS 30 LET A=((2x1-4)x90)/E: LET A=180-A: LET A=2x91x(A/360) 40 ANGLE O 60 DF (\$M\$\$L)/P1>191 THEN LET \$L+\$L-1: SETE AG

99 FOR Yet TO BO 100 FOR NH1 TO EL ORAN SLI PHE AL MEXT 110 LET D=(SLYE)/PT: LET 8L+SL-CSL/S): PLOT 120-(SL/2): 95-((D-(D/S))/2): MFST V 1000 IF DAKEYS-"\* THEN 0070 1000

Poly Tunnels by P Gled

#### Arcade Avenue

A blockbuster

It is tronic that with its image as a machine for nectour

Tera Kenda

The same Person in some contract

POPALAR COMPUTING MEEGLY









HISOFT



AT LAST! BANGE OF OUALITY ARCADE AMES FOR THE SHARP MZ700 HUNCHY, A fint for the Show! ES.55 Rescus Esmeralde from the paste wit 8 screens of

TWIN PACKS - Two Issi m/c games for the price. PACK I. U.F.O. HOUGHTS & CROSSES CS. SC serve features a furnishing labor and becomes labor or SHTS A CROSSER -- Standard game for two people

STANGATE - Datend the Stangare and persons the ANY ASSAURT - WE'RE WOOD WEST ORDER

TACK III MATERIAN BAUCER SINOK CS.50 SALICER SINGS - Communicate with an alien orth by copyling a saring of policy longer Us to 45 sequential forms

MANY MORE PROGRAMS ANALASIA ABACUS SOFTWARE LTD

31 UNION STREET, RANGE NE BURY, LANCE Tel; Sedon 52204

NCREDIBLE BARGAIN OFFER!

is remarkably compart also.

Why pay hundreds of pounds as continue fund codelle are ship DM-SF - SET SURFEY, as only 30 are helicity available.

NOW ON 01-564 MAG

SUPAPUNTA MORE PROFE COUNTY AT YOU SPECIAL AND MADE IN METERS OF SERVICE STATE PRINT'S COME ADVANTAGES IN HER PART COMME DELANCE COUNTS A DELANCE WHEN "TENTERS TELL TALL" ARALTES PROCEDURE

-MANY MANY CONTRACT, LINCOLDING OF

v Mourice Govin mode for each other The graphics

Blashotions, this book gives heavy emphasis to the high quality graphics will also allow you to Pover Astronomical Society and Index System Beets

Security to our members at impressive rates Sent intercePO for \$400.50 The Settlers Landing Library, FO Sex 3 GASTLEPORS.

FORGET THE EPST AND JON THE BEST POPULAR COMPUTING WEEKLY -- the Intraction smakly referencementer managins .... Is bigding for a SOFTWARE EDITOR

Applications in writing pressure in David Rate, More Dates Popular Computing Weekly, 1215 Life Newport Street Leaders INCOM. 2LG

POPULATION WEEKLY

## Tony Bridge's Adventure Corner



#### Shopper a Vic 22 owner writes to me

"Curse of the Warswolf is the worst of

Advertices

W INDIVIDUA \* Restur Iran Custir Dawy seeds 19K

ballion to Cartle Droad where you must or befor this resoung a demon from a

clids I make up for it being too easy Greham Shew in his letter leaf work

room Transia, a gloss for help. How do you

Iven. 7) moves if also takes about to re-

adventure very interesting with planty of

"FinUs. Four Gazes to Freedom (Phoe-

venture. Unfortunately, you have to forth

The same of afficient is designed for restor



25 SOfte Keen Cape (no. Ph.P)
Some incurrier - PNNYDAIT - PO Box No. 25
oral POPULARIODAT - IT THE SERVICE - IT TO PULARIODAT - IT TO PULARIO

Back July leaune 200.00 in Elect AND COMMENTS

Santa Dan

eek & Poke

that supplies or a mate and topply their address and re-

This cranping parelyse

of the happened to spice

THIS YEAR'S

31 MKY-6-A-9E 1904

INTERFERENCE Others I consected to

Epona MV.00 princer, which

radio - and the prieter. though and re through. I not

A Two-life and suggest on... you do the servering yet

CALL

B. Alice Profit, Scotland, I was very interested in Person VTX 5000, no I have now

O l vas doppelmed · Spectrum In a SISC. I could not find an equivalent to Any. What can I do? In then

comber of sublished sececame, which, when rum, look ony program which has the A Without derroy 180

drive that is the problem? I have a looding yorkies

O I have no finite I Spec-trees with Enterface I

microdores I am esprogrades archieur alth a

Wiles I have program I have CENHOL STON MOCKS AGE

I tues loodies error' The minisky must from? weehable, as you are changed the volume setting - use 37

relief the new need no lear-I are disking of perfor translate machine ande bein Easie and vice verm? see which use is the best?

Alto, hon exactly de ven tokens the security was

ra saha pen The address is Peek & K. 12-13 Little Newsort I

# For BBC Micro and Electron Users

















### into big operators.

Suisimie books direct of del Porm		
Books for the REC Mirro Practices of Participant Participant Compiler Are Compiler Are Compiler Are Compiler Are Compiler Are Compiler Are Compiler	Book Book  I renteen a cheque for E  payable to Saurahine Books  I menteen a postal order for	he Newport Street, Londe Dienes charge my Vi- sied Ny. Valid from. expires out Signed Nume. Address



-----

91 MAZ-0-JAME 1904



SERGISA APREL PYRK Truste GAMES PACKS FOR IMPERANDED

ATRIOS SAK, person a paper derit

SPECTRAL PROPERTY. COLUMN SPECTRUM RECORDER, Ampair. SEC Microther Startes 1 on or 100per CIC (sect). CCC 80 pool condisor Tel Brashed COGH ladys. of Section One Code Crt 276, COMMODORS S4 actions Out to considering be Swip your afficient for city 25g per years force to her Percentage for Leave Comment Springs THE WINE HAS REPORTED FOR FIRE

LEISURENRE SPECTRAL ZON: DO DRAGON COMM VICES

WHITMHELD

read a Computation from the su-septicity assest or a pear. We find for many self assessed from programs reagainst and bester Stationess and Computer Services 19th Conduction State Learness for 19th, Tor Co-SCI State Learness for 19th, Tor Co-SCI

pito lutieno el Phi -Parent Course

WANTED

VICEO, and Ated Also, Spectrum 165/489 London NWS 246

LO Proposes require

Mon Sale 36

STATE OF

MAGAZINES

Carried St. St. Carried St. Con. of Carried St. Carrie

SP No SP's convision.



ADVENTURE Rockins, Licenseyhire CSE 64 5/9 to 641 to Juny 16vo Berer ELOS Gine Rumon ELOS Nilson of the Makert Correlo ELOS BACK COPPES of PCTV for sale, 20s the COO part software Martin' Allians, the Ustra del. Emine sapes affragative, untri de somoja varifici 201 vali for ESI desautive attrast, and Marrico; serpe pronorment of languages, there because Code and one ESIS Allia MCRO I-O region + Seeky des. Gest COS I-O region + Seeky des. Gest COS I-O region + Seeky des. Gest COS I-O region + Seeky des. and what does the grafts record PRINT MARRICENDANT 1900 Name Nr S.P. Horski Name NV S.P. Hotskin Make Mills and Wido. STANTON WIR MARK AND THE SET OF 26000 BINDONS BASIS for Commoders R4 — ETO: Allos Lited Righton and Photos south ESO: MEE set at 2 tents for eith SCIE VIEWS CTAIN CANTRIGUES for pumping DINE TYSES. BINNY BRANT ACHES HE FIND Y TWS ON MODEL I A T - level 2, 30% Name: Stewart Milriana Address: 31 Eliza Sanda Court. DET 429 \$150.
CORRECT ON STOCK INSINSTER SHADE
IN DROCK INVESTIGATION TO CATE THE 
PLANTED TEXAS THE ORIGINAL ASSOCIATION TO 
SHADE TO TEXAS THE ORIGINAL ASSOCIATION TO 
SHADE TO TEXAS THE ORIGINAL ASSOCIATION TO 
THE ORIGINAL ASSOCIATION TO 
THE ORIGINAL ASSOCIATION ASSOCIATION TO 
THE ORIGINAL ASSOCIATI Digr Eugs, Volonkarpson IVS METHOD STATE ORIGINA ST JANUARY SERVICE STATE OF STATE AND STATE OF STATE O adjusting CAPTROOM hape that for the pool continue, \$7.00 Tel MANTED RISL WOODS, B. CONV. AL MARTIN CONFIDENCE AND MAR common class common fact. SECT Mile Type WIC EPECTRUM 1 and old, recor-ated 1 CN of the Area (1550) or many for Electron 1 and Tel 1850 Plan (ere) RANGO INTERNATIONAL SOOM COTORN GENE LING NY HIGHRID HIGGS ALLAPHONE BRIEF by a Sensitive More Track 64 Create respi Adv 6.6 No State of Stigers

#### New Releases

#### IN FLIGHT

Flate a a Date ampletes

company directions

TOWERING

#### RIZADDE

a roughly number to Union

Army is the follow on he

these you mone except at hear

NO TO NUKES

BEES TO THE RESCUI

### New Releases

SPIDER'S LAIR

Smiler and the Pla has a

come in a big box for £9.55

CHECKMATE Ches II as friely replacement

UPSTAIRS

WHO VOTES WINS

revertible which me fethal d Although u'v on arrante

The idea is to paint the

pubbblehibs if you make a takine a different party and

craphics and craphs New Foresses is deeped to

KIDS STUFF

Childrafer is a concess of sea

ATLANTS





He veible disposed He trutong between the

On may younge where at this is heading

must be extended that some of the efforts are principly good by the formula or of 1 4 4 4 5

Patter No. 194

Another formula is: Solution in Passin Ho 184

he Heckere





